

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-74. (Canceled).

75. (New) A system for the infusion of a pharmacological solution in a patient, comprising:

an elastomeric container for containing a pharmacological solution and for generating a flow of said pharmacological solution from said container to a catheter insertable in the body of the patient;

a valve arrangement to vary said flow; and

a command and control device operationally connected to said valve arrangement to command a pulsed actuation of said valve arrangement, said flow being determined by the number of actuations of said valve arrangement per unit time.

76. (New) The system according to claim 75, wherein said valve arrangement comprises a valve of the normally closed type.

77. (New) The system according to claim 75, wherein said valve arrangement comprises at least one solenoid valve.

78. (New) The system according to claim 75, wherein said command and control device comprises a microprocessor operationally connected to said valve arrangement.

79. (New) The system according to claim 75, wherein said elastomeric container is supported on a support element associated with a containing and protection element.

80. (New) The system according to claim 79, wherein said containing and protection element is made of transparent material and is equipped on its outside surface with a graduated scale.

81. (New) The system according to claim 79, wherein said containing and protection element comprises an inlet portion connected to said elastomeric container to introduce therein said pharmacological solution.

82. (New) The system according to claim 81, wherein said inlet portion is associated with a connecting element suitable for enabling coupling of said inlet portion with an introducing device, to introduce said pharmacological solution into said inlet portion.

83. (New) The system according to claim 81, wherein said containing and protection element furthermore comprises an outlet portion connected to said elastomeric container, through which the pharmacological solution introduced into the elastomeric container can flow out thereof.

84. (New) The system according to claim 83, wherein said outlet portion is suitable for being connected to a first end of a fitting element, a second end of which is connected to said valve arrangement.

85. (New) The system according claim 84, wherein said valve arrangement is associated with a further connecting element suitable for enabling coupling of said valve arrangement with a delivery device, for administration of the pharmacological solution.

86. (New) The system according to claim 75, comprising an interface element for operationally connecting said command and control device with a data processing system.

87. (New) The system according to claim 75, wherein said command and control device comprises a reading device suitable for receiving a data recording support and for reading data stored thereupon.

88. (New) The system according to claim 87, wherein said data recording support is a data recording support of the smart-card type.

89. (New) The system according to claim 75, comprising a battery to supply electric to said command and control device.

90. (New) The system according to claim 89, wherein said battery is of the rechargeable or replaceable type.

91. (New) The system according to claim 75, wherein said command and control device comprises a microprocessor operationally connected to said valve arrangement, said pulsed actuation being made according to an infusion protocol stored in said microprocessor.

92. (New) The system according to claim 75, wherein the elastomeric container is structured or configured to exert a pressure on the pharmacological solution that has a substantially constant value.

93. (New) The system according to claim 75, wherein the elastomeric container is pressurized in use to prevent the pharmacological solution from flowing from the elastomeric container back to an inlet, and/or to induce flow of the pharmacological solution from the elastomeric container to an outlet.

94. (New) The system according to claim 75, wherein the elastomeric container, in use, exerts pressure on the pharmacological solution.